

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/114105 A3**

(51) International Patent Classification<sup>7</sup>: **G06F 3/033**,  
G06K 11/00, H03K 17/96

(21) International Application Number:  
PCT/GB2004/002511

(22) International Filing Date: 14 June 2004 (14.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0313808.8 14 June 2003 (14.06.2003) GB

(71) Applicant and

(72) Inventor: **BINSTEAD, Ronald, Peter** [GB/GB]; Bin-  
stead Designs Ltd, 15 Seely Road, Nottingham NG7 1NU  
(GB).

(74) Agent: **CHARIG, Raymond**; Eric Potter Clarkson, Park  
View House, 58 The Ropewalk, Nottingham NG1 5DD  
(GB).

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

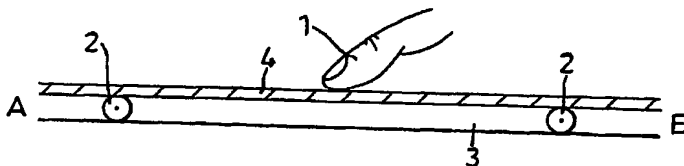
Published:

— with international search report

(88) Date of publication of the international search report:  
15 September 2005

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: IMPROVEMENTS IN TOUCH TECHNOLOGY



(57) Abstract: A touchpad comprising a supporting medium (3) supporting a plurality of spaced apart conductors (2) in which there is no electrical contact between the conductors, each conductor being sensitive to the proximity of a finger (1) to vary the capacitance of said conductor (2) to detect the presence of said finger (1) positioned close to that conductor, the touchpad further comprising a means (4) to concentrate electric field between conductors (2) towards the plane of the supporting medium (3).

WO 2004/114105 A3